

## PCT REQUEST

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REC'D PCT/PTO

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0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	1415
I	Title of invention	RESIN-BONDED, GAS PURGED NOZZLE
II	Applicant	
II-1	This person is:	applicant and inventor
II-2	Applicant for	US only
II-4	Name (LAST, First)	DESAI, Priyadarshi, Gautam
II-5	Address:	7081 Highland Creek Road Bridgeville, PA 15107 United States of America
II-6	State of nationality	IN
II-7	State of residence	US
II-8	Telephone No.	412-276-1750
II-9	Facsimile No.	412-276-7252
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	DEBASTIANI, Duane
III-1-5	Address:	603 Parliament Drive Moon, PA 15108 United States of America
III-1-6	State of nationality	US
III-1-7	State of residence	US


III-2	<b>Applicant and/or inventor</b>	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	JANSSEN, Dominique
III-2-5	Address:	12 Wellington Court McKees Rocks, PA 15136 United States of America
III-2-6	State of nationality	CA
III-2-7	State of residence	US
III-3	<b>Applicant and/or inventor</b>	
III-3-1	This person is:	applicant only
III-3-2	Applicant for	all designated States except US
III-3-4	Name	VESUVIUS CRUCIBLE COMPANY
III-3-5	Address:	103 Foulk Road, Suite 32 Wilmington, DE 19803 United States of America
III-3-6	State of nationality	US
III-3-7	State of residence	US
IV-1	<b>Agent or common representative; or address for correspondence</b> The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	WILLIAMS, James
IV-1-2	Address:	Vesuvius USA Corporation 27 Noblestown Road Carnegie, PA 15106 United States of America
IV-1-3	Telephone No.	724-652-0821
IV-1-4	Facsimile No.	724-652-7984
IV-1-5	e-mail	jrwlaw@adelphia.net
IV-1-5	Agent's registration No.	43268

<b>V</b>	<b>Designation of States</b>	
<b>V-1</b>	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE BG CH&amp;LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT</p> <p>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p>
<b>V-2</b>	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	<p>AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&amp;LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW</p>
<b>V-5</b>	<b>Precautionary Designation Statement</b>  In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
<b>V-6</b>	<b>Exclusion(s) from precautionary designations</b>	NONE
<b>VI-1</b>	<b>Priority claim of earlier national application</b>	
VI-1-1	Filing date	16 October 2002 (16.10.2002)
VI-1-2	Number	60/418,957
VI-1-3	Country	US

VI-2	<b>Priority document request</b> The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	<b>International Searching Authority Chosen</b>	<b>European Patent Office (EPO) (ISA/EP)</b>	
VIII	<b>Declarations</b>	<b>Number of declarations</b>	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	1	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)). In a case where the declaration under Rule 4.17(iv) is not appropriate: Name:	<b>in relation to this international application</b>  <b>VESUVIUS CRUCIBLE COMPANY</b> is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1 (ii)		<b>VESUVIUS CRUCIBLE COMPANY is entitled as employer of the inventor, DESAI, Priyadarshi, Gautam</b>
VIII-2-1 (ii)		<b>VESUVIUS CRUCIBLE COMPANY is entitled as employer of the inventor, DEBASTIANI, Duane</b>
VIII-2-1 (ii)		<b>VESUVIUS CRUCIBLE COMPANY is entitled as employer of the inventor, JANSSEN, Dominique</b>
VIII-2-1 (ix)	This declaration is made for the purposes of:	<b>all designations except the designation of the United States of America</b>

VIII-4-1	<p><b>Declaration: Inventorship (only for the purposes of the designation of the United States of America)</b> Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to the international application of which it forms a part (if filing declaration with application).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1 -1	Prior applications:	

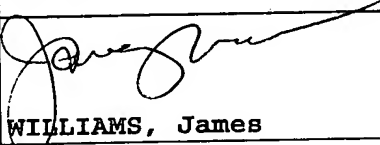
		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.</p> <p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1 -1-1	Name: 1-00	DESAI, Priyadarshi, Gautam
VIII-4-1 -1-2	Residence: (city and either US State, if applicable, or country)	Bridgeville, Pennsylvania PA
VIII-4-1 -1-3	Mailing address:	7081 Highland Creek Road
VIII-4-1 -1-4	Citizenship:	IN
VIII-4-1 -1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1 -1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	October 14, 2003

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2-0	<p>VIII-4-1 -2-1 Name</p> <p>VIII-4-1 -2-2 Residence: (city and either US State, if applicable, or country)</p> <p>VIII-4-1 -2-3 Mailing address</p> <p>VIII-4-1 -2-4 Citizenship</p> <p>VIII-4-1 -2-5 Inventor's Signature: (If not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)</p> <p>VIII-4-1 -2-6 Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)</p>	<p><u>DEBASTIANI, Duane</u></p> <p><u>Moan, Pennsylvania PA</u></p> <p>603 Parliament Drive</p> <p>US</p> <p><i>D. DeBastian</i></p> <p>October 14, 2003</p>
3-0	<p>VIII-4-1 -3-1 Name:</p> <p>VIII-4-1 -3-2 Residence: (city and either US State, if applicable, or country)</p> <p>VIII-4-1 -3-3 Mailing address:</p> <p>VIII-4-1 -3-4 Citizenship:</p> <p>VIII-4-1 -3-5 Inventor's Signature: (If not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)</p> <p>VIII-4-1 -3-6 Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)</p>	<p><u>JANSSEN, Dominique</u></p> <p><u>McRees Rocks, Pennsylvania PA</u></p> <p>12 Wellington Court</p> <p>CA</p> <p><i>Dominique Janssen</i></p> <p>OCTOBER 14, 2003</p>



IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	9	-
IX-2	Description	15	-
IX-3	Claims	3	-
IX-4	Abstract	1	EZABST00.TXT
IX-5	Drawings	1	-
IX-7	TOTAL	29	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-10	Original general power of attorney	✓	-
IX-10	Original general power of attorney	✓	-
IX-10	Original general power of attorney	✓	-
IX-11	Copy of general power of attorney	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract	2	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name (LAST, First)	WILLIAMS, James	

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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